

Name _____ Date _____

Analytical Rubric for Math Problem Solving

revised 2/26/03 ceh

Level	Understanding	Reasoning & Strategies	Communication	Accuracy
4 Goes Beyond Standard	<ul style="list-style-type: none"> - Finds all important parts of the problem - Fully understands the problem - Uses creative thinking - Understanding includes extending the problem in some way 	Goes beyond expectations in one or more ways: <ul style="list-style-type: none"> - solves more than one way - extends problem - uses more than one way to show thinking 	<ul style="list-style-type: none"> - Clear and thoughtful answer - Procedures organized and labeled, easy to understand - Includes clear graphs, diagrams, charts, etc. - Excellent use of math language and symbols - Neat, easy to read 	<ul style="list-style-type: none"> - All arithmetic is correct - Correct solution - Correct solution on an extension of the problem
3 Meets Standard	<ul style="list-style-type: none"> - Shows good understanding of the problem - Knows how to do the math 	<ul style="list-style-type: none"> - Uses one appropriate way to solve the problem 	<ul style="list-style-type: none"> - Uses graphs, diagrams, charts, etc. to show thinking - Good use of math language and symbols - Procedures can be followed - Effective use of labels - Mostly neat and easy to read 	<ul style="list-style-type: none"> - Solution is correct. - Small mistakes may exist
2 Working Toward Standard	<ul style="list-style-type: none"> - Shows some understanding of the problem - Does not understand all parts of the problem 	<ul style="list-style-type: none"> - Tries a method that might solve the problem - Shows some thinking, but not enough to complete the task 	<ul style="list-style-type: none"> - Not clear - Didn't explain thinking - Uses some math language and symbols - Some use of diagrams, graphs, or tables - Some use of labels - Not so neat 	<ul style="list-style-type: none"> - Incorrect solution - Some mistakes
1 Well Below Standard	<ul style="list-style-type: none"> - Does not understand the problem - Does not show any understanding of the problem 	<ul style="list-style-type: none"> - The reasoning is hard to understand - No strategy is chosen - A strategy that doesn't lead to a correct solution is 	<ul style="list-style-type: none"> - Difficult to understand - no use of diagrams, graphs, or tables - None, poor, or incorrect use of math language and symbols 	<ul style="list-style-type: none"> - No solution - Big mistakes